

Name _____

Changing Mixtures
Lab 18

18.1 Adding Salt to Ice

1. What was the temperature of the crushed ice?

Beaker A: _____

Beaker B: _____

2. What do you **predict** will happen when 1 teaspoon of salt is added to the ice in Beaker A?

What do you **predict** will happen in Beaker B without the salt?

3. What **actually** happened to Beaker A when you added 1 teaspoon of salt? Also write the temperature.

What **actually** happened to Beaker B without the salt? Also write the temperature.

4. What do you **predict** will happen if you add an additional 1 teaspoon of salt to Beaker A?

What do you **predict** will happen to Beaker B without the salt?

5. What **actually** happened to Beaker A when you added the additional 1 teaspoon of salt? Also write the temperature.

What **actually** happened to Beaker B without the salt? Also write the temperature.

6. What effect does salt have on the state of matter of ice?

7. What effect does salt have on the melting point of ice?

8. What effect does the addition of more salt have on the temperature of the ice-saltwater mixture?

9. Does the amount of salt you add affect the temperature and melting point of ice? If so, how?

18.2 Adding Salt to Boiling Water

10. How can you tell the water is boiling?

11. At what temperature does the water boil?

12. What do you **predict** will happen if you add 2 teaspoons of salt to the boiling water?

What **actually** happened when you added the salt to the water?

13. What happened when you added even more salt?

14. What effect did salt have on the boiling point of water?

Does the amount of salt added affect the temperature and the boiling point of water? If so, how?

***15. What effect does the salt have on the melting and boiling points of water?